

**A. M. A.**  
**ARCHIVES OF**  
**PATHOLOGY**

**EDITORIAL BOARD**

GRANVILLE A. BENNETT, Chicago, Chief Editor

S. B. WOLBACH, Boston

WILLIAM B. WARTMAN, Chicago

WILEY DAVIS FORBUS, Durham, N. C.

FRANK R. MENNE, Portland, Ore.

GEORGE H. WHIPPLE, Rochester, N. Y.

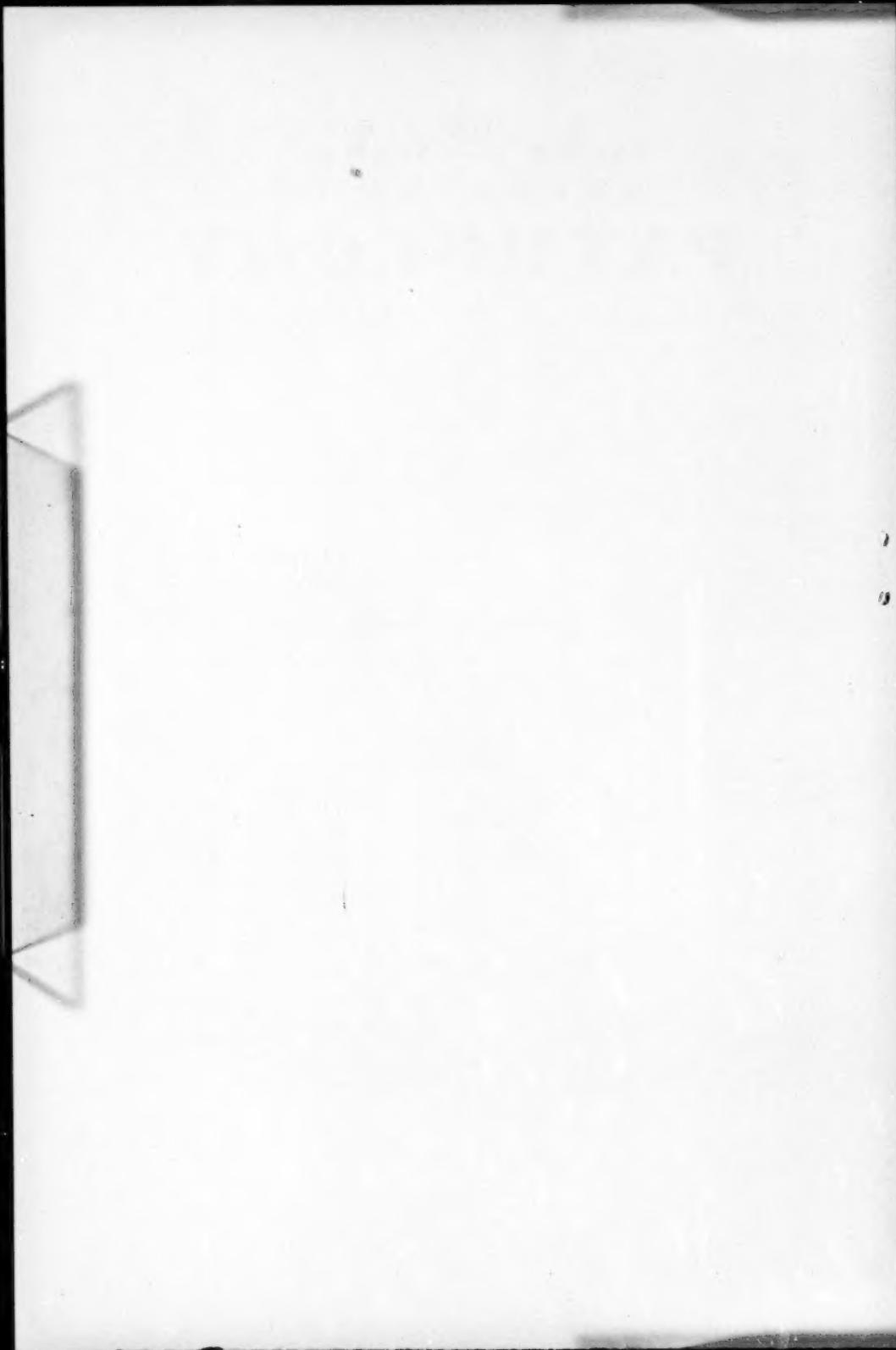
CHARLES E. DUNLAP, New Orleans

LUDVIG HEKTOEN (Deceased)

RICHARD J. PLUNKETT, M.D., Chicago, Managing Editor

**VOLUME 52**  
**1951**

PUBLISHERS  
AMERICAN MEDICAL ASSOCIATION  
CHICAGO 10, ILL.



## CONTENTS OF VOLUME 52

JULY 1951. NUMBER 1

	PAGE
Experimental Medullary Necrosis of the Kidney: A Morphologic and Functional Study. Emanuel E. Mandel, M.D., Atlanta, and Hans Popper, M.D., Ph.D., Chicago.....	1
Problems of Classification of Poliomyelitis Virus. Claus W. Jungeblut, M.D., New York.....	18
Coexistent Gastroduodenal and Cerebral Lesions in Infancy and Childhood. Hans G. Schluemperger, M.D., Columbus, Ohio.....	43
Observations on a Cytoplasmic Hepatic-Cell Pigment in Man. Joseph Post, M.D.; Joseph G. Benton, M.D., and Rhoda Breakstone, New York.....	67
A Method for the Histopathologic Study of the Atrioventricular Node, Bundle, and Branches. Maurice Lev, M.D.; Jerrold Widran, M.D., and Ethel E. Erickson, M.D., Chicago.....	73
Granulomatous Glomerulonephritis Associated with Polyarthritis: Report of a Case. J. F. A. McManus, M.D., Charlottesville, Va., and A. T. Hornsby, M.D., Durham, N. C.....	84
Portal Axis Thrombosis with Spontaneous Portacaval Shunt and Resultant Cor Pulmonale. Lieutenant Colonel Frank A. Mantz Jr., Medical Corps, United States Army, and Ernest Craigie, M.D., Boston.....	91
A Note on the Origin of Multinucleated Giant Cells from Vascular Channels in Tumors: Tumors Arising in Thyroid Gland, Bone and Soft Tissue. Leiland J. Rather, M.D., San Francisco.....	98
Notes and News.....	104

AUGUST 1951. NUMBER 2

Vascular Lesions in Alloxan Diabetic Rats. A. L. Chute, M.D.; J. L. Orr, B.A.; M. J. O'Brien, M.D., and E. E. Jones, M.D., Toronto, Canada.....	105
Lipemia of Rabbits Following Unilateral Occlusion of the Renal Vessels. Grant C. Johnson, M.D.; Frederick C. Bauer Jr., M.D.; Edwin F. Hirsch, M.D., and Lynn Carbonaro, M.S., Chicago.....	115
Effect of Cortisone on the Arthus Phenomenon as Related to the Time of Sensitization: A Comparison of Histopathologic Changes. Frederick W. Tillotson, M.D., Cleveland.....	119
Localization of Thrombosis in the Main Arteries and Deep Veins of the Lower Limb. Åke Lindblom, M.D., Stockholm, Sweden.....	128
Lesions of the Vasa Vasorum and Dissecting Aneurysms of the Aorta: Analysis of Incidence, Etiological Aspects, Pathogenesis, and Pathological Changes. Joseph F. McCloskey, M.D., and Philip T. Chu, M.D., Philadelphia.....	132
Malignant Hypertension Following the Administration of Cortisone in Periarteritis Nodosa. Theodore Ehrenreich, M.D., and Edwin V. Olmstead, M.D., Bronx, N. Y.....	145
Quantitative Exfoliative Cytology: The Effect of Diethylstilbestrol on the Glycogen Content of the Epithelial Cells in Urinary Sediment and Cervical Smears in Pregnancy. Alvan G. Foraker, M.D., and Sam Wesley Denham, M.D., Atlanta.....	155
Deaths from Rapid Anoxia. I. Gordon, M.B., Ch.B., Durban, South Africa, and R. Turner, M.B., Ch.B., D.P.H., Capetown, South Africa.....	160
Embryogenesis of Tracheoesophageal Fistula and Esophageal Atresia: A Hypothesis Based on Associated Vascular Anomalies. Zdenek Fluss, M.B., Ch.B. (Bristol), and Kenneth J. Poppen, M.D., San Francisco.....	168
<b>Case Reports:</b>	
Adrenal Pheochromocytoma with Neuroblastomatous Elements: Report of a Case with Autopsy. P. B. Fernando; G. H. Cooray and R. S. Thanabalanandrum, Colombo, Ceylon .....	182

## AUGUST—Continued

Laboratory Methods and Technical Notes:	PAGE
An Improved Method for Histologic Demonstration of Acid Mucopolysaccharides in Tissues. James F. Rinehart, M.D., and Suleiman K. Abul-Haj, San Francisco....	189
A Simple Disposable Apparatus for Dehydration of Frozen Tissues. Robert B. Jennings, M.D., Chicago.....	195
Books Received.....	198

## SEPTEMBER 1951. NUMBER 3

A Study of Tumor Tissue After Transplantation: Histologic Changes Observed in Anterior-Chamber Transplants of Heterologous Tumor Tissue. Abe Towbin, M.D., Columbus, Ohio .....	199
Effect of Aureomycin on Transplanted Tumors. Boris Sokoloff, M.D., Ph.D., and Walter H. Eddy, Ph.D., Lakeland, Fla.....	210
Flavonoids in Experimental Cancers. Boris Sokoloff, M.D., Ph.D.; Walter H. Eddy, Ph.D., and James B. Redd, Ph.D., Lakeland, Fla.....	215
Calcified Lesions in C3H Mice Given Purified Low-Protein Diets: Tissues Involved: Heart, Skeletal Muscles, Arteries, and Lungs. Benjamin Highman, M.D., and Floyd S. Daft, Ph.D., Bethesda, Md.....	221
Selective Pancreatic Acinar Destruction by dl-Ethionine. R. C. Goldberg, Ph.D., and I. L. Chaikoff, M.D., Berkeley, Calif.....	230
The Human Aorta: IV. The Aorta in Diabetes Mellitus. Mogens Faber, M.D., and Flemming Lund, M.D., Copenhagen, Denmark.....	239
Pathogenesis of Streptococcal Pneumonia in the Rat. Robert J. Glaser, M.D., and W. Barry Wood Jr., M.D., with the Technical Assistance of Alice Hamlin, St. Louis.....	244
Effect of Repeated Streptococcal Pulmonary Infections on the Cardiovascular System in Rats. Robert J. Glaser, M.D.; Gustave J. Dammin, M.D., and W. Barry Wood Jr., M.D., with the Technical Assistance of Alice Hamlin, St. Louis.....	253
Experimental Coronary Sclerosis: IV. The Effect of Cortisone on End-Stage Coronary Sclerosis in Chickens. J. C. Paterson, M.D., London, Ont., Canada, and Charles A. Mitchell, D.V.M., Hull, Que., Canada.....	260
Hypertensive Cardiovascular Disease: Nature and Pathogenesis of the Arteriolar Sclerosis Induced by Bilateral Nephrectomy as Revealed by a Study of Its Tinctorial Characteristics. E. E. Muirhead, M.D.; Louis B. Turner, M.D., and Arthur Grollman, M.D., Ph.D., Dallas, Texas.....	266
Case Reports:	
Paraphysial Cyst of the Third Ventricle: Report of a Case with Autopsy Observations. Jerome Schwartz, M.D., Lynbrook, N. Y., and Lieutenant Colonel James L. Hansen, Medical Corps, United States Army.....	280
Streptococcus Hepatitis. Paul Kotin, M.D., and E. M. Butt, M.D., Los Angeles.....	288
Laboratory Methods and Technical Notes:	
A Benzidine-Thionine Method for the Demonstration of Hemoglobin in Formaldehyde-Fixed, Paraffin-Embedded Tissue. Frederick A. Putt, New Haven, Conn.....	293
Books Received.....	295

## OCTOBER 1951. NUMBER 4

Effect of Hypervitaminosis A and Hypovitaminosis A on the Skeleton of a Duck. R. H. Rigdon, M.D.; J. C. Rude, and J. G. Bieri, Galveston, Texas.....	299
Bone-Marrow Embolism. John H. Fisher, M.D., London, Ont., Canada.....	315
Application of Emission Spectroscopy to Medical Problems:	
I. Spectrographic Techniques. Ivie Lee Smith, M.S.; Ernest Yeager, Ph.D.; Nathan Kaufman, M.D.; Frank Hovorka, Ph.D., and Thomas D. Kinney, M.D., Cleveland..	321

## CONTENTS OF VOLUME 52

v

## OCTOBER—Continued

	PAGE
II. A Survey of Typical Applications. Ivin Lee Smith, M.S.; Nathan Kaufman, M.D.; Ernest Yeager, Ph.D.; Frank Hovorka, Ph.D., and Thomas D. Kinney, M.D., Cleveland .....	332
Experimental Food-Aspiration Pneumonia. Thomas J. Moran, M.D., Pittsburgh.....	350
Cerebral Demyelination and Focal Visceral Lesions in a Case of Acute Hemorrhagic Pancreatitis, with a Consideration of the Possible Role of Circulating Enzymes in the Causation of the Lesions. F. Stephen Vogel, M.D., New York.....	355
Chondromucinase from Bovine Testis and the Chondromucin of the Umbilical Cord. R. D. Lillie, M.D.; E. W. Emmart, Ph.D., and A. M. Laskey, B.S., Bethesda, Md.....	363
Dynamics of Inflammation and of Repair: I. The Trigger Mechanism of Acute Inflammation. Virgil H. Moon, M.D., and George A. Tershakovec, M.D., Coral Gables, Fla.....	369
Morphological Changes of Adrenal Cortex in Frostbitten Rabbits With and Without Heparin Treatment. Bernhard Hoelscher, M.D., Randolph Field, Texas.....	378
Case Reports:	
Acute Plasma-Cell Leukemia Without Localized Bone Lesions: Report of a Case with Autopsy Observations. S. H. Lawrence, M.D., and Harry C. Fortner, M.D., San Fernando, Calif.....	384
Special Article:	
Ludvig Hektoen, Pathologist, 1863-1951. Paul R. Cannon, M.D., Chicago.....	390
Notes and News.....	395
Books Received.....	396

## NOVEMBER 1951. NUMBER 5

Infarction of the Brain Without Thrombosis: An Analysis of One Hundred Cases with Autopsy. Samuel P. Hicks, M.D., and Shields Warren, M.D., Boston.....	403
Studies on the "Alkaline" Phosphatase Associated with Regenerating Connective Tissue Fibers. Bernard S. Gould, Ph.D., and Norman I. Gold, Ph.D., Cambridge, Mass.....	413
Hepatic Necrosis Induced by Dietary Means. M. R. Abell, M.D., London, Ont., Canada, and J. M. R. Beveridge, Ph.D., M.D., Kingston, Ont., Canada.	
III. The Effect of Various Dietary Modifications on the Liver Lipid Fractions and on the Development of Necrosis.....	423
IV. Conditions Affecting the Production and Prevention of Massive Liver Necrosis	428
Dynamics of Inflammation and of Repair: II. Chemotactic Substances in Normal Tissues. Virgil H. Moon, M.D., and George A. Tershakovec, M.D., Coral Gables, Fla.....	441
Effect of Various Pathological Conditions on the Copper Content of Human Tissues. Edward Pedrero Jr., M.S., Cleveland, and Frank L. Kozelka, Ph.D., Madison, Wis.....	447
Effect of Copper on Hepatic Tumors Produced by 3'-Methyl-4-Dimethylaminoazobenzene. Edward Pedrero Jr., M.S., Cleveland, and Frank L. Kozelka, Ph.D., Madison, Wis.....	455
Histochemical Analysis of Pathological Mineral Deposits at Various Sites, with Discussion of Methods Used. Henry Bunting, M.D., New Haven, Conn.....	458
Case Reports:	
Single Coronary Artery: Report of Two Cases. Lorel A. Stapley, M.D., and Jesse E. Edwards, M.D., Rochester, Minn.....	470
Pulmonary Adenomatosis: Report of a Case Demonstrating Peculiar Histological Changes in Certain Bronchioles. W. Gepts, M.D., Brussels, Belgium.....	473
Anomalous Cardiac Blood Vessel Communicating with the Right Ventricle: Observations in a Case of Pulmonary Atresia with an Intact Ventricular Septum. Robert R. Williams, M.D.; George B. Kent Jr., M.D., and Jesse E. Edwards, M.D., Rochester, Minn.....	480
Notes and News.....	488

	PAGE
Polyarteritis Nodosa, Associated with Malignant Hypertension, Disseminated Platelet Thrombosis, "Wire Loop" Glomeruli, Pulmonary Silicotuberculosis, and Sarcoidosis-like Lymphadenopathy. W. St. C. Symmers, M.D., M.R.C.P., Birmingham, England, and Roger Gillett, B.M., B.Ch., Oxford, England.....	489
Thromboembolic Pulmonary Arteritis and Vascular Sclerosis: Its Experimental Production in Rabbits by Means of Intravenously Injected Human Amniotic Fluid and Autogenous Blood Clots. E. E. Muirhead, M.D., and P. O'B. Montgomery, M.D., Dallas, Texas.....	505
Metastasis to the Pineal Body. Paul Ortega, M.D.; Nathan Malamud, M.D., and Michael B. Shimkin, M.D., San Francisco.....	518
A Study of Tissue Implantations on Embryonated-Egg Membranes. Geno Saccomanno, Ph.D., M.D., and Richard Waldapfel, M.D., Grand Junction, Colo.....	529
Cholesterol in Plasma and Tissues Subsequent to Its Intravenous Injection. Margaret Osborn, Ph.D.; Nathan Womack, M.D.; Kate Daum, Ph.D., and William Kridelbaugh, M.D., Iowa City.....	546
Ruptured Congenital Aneurysms of the Aortic Sinuses of Valsalva: Report of a Case with Bacterial Endocarditis Due to <i>Hemophilus Parainfluenzae</i> . Francis J. Tenczar, M.D., Chicago; Ralph J. Johansmann, M.D., Cincinnati, and Joseph Kaufman, M.D., San Francisco.....	552
Case Reports:	
Malignant Teratoma of the Heart: Report of Case with Necropsy. Robert D. Solomon, M.D., Terre Haute, Ind.....	561
Thymic Cyst of the Neck. Russell W. Weller, M.D.; Alexander E. Pearce, M.D., and Milton Rapoport, M.D., Philadelphia.....	569
News and Comment.....	574
Books Received.....	574

## INDEX TO VOLUME 52

Book Reviews and Obituaries are indexed under these headings in alphabetical order under the letters B and O, respectively.

**Abell, M. R.**  
Studies on hepatic necrosis induced by dietary means: conditions affecting production and prevention of massive liver necrosis, 428  
Hepatic necrosis induced by dietary means: effect of various modification on liver lipid fractions and on development of necrosis, 423  
**Abnormalities and Deformities:** See under names of organs and regions

**Abul-Hai, S. K.**  
Improved method for histologic demonstration of acid mucopolysaccharides in tissues, 189

**Adrenals**  
adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy [Fernando & others], 182  
morphological changes of adrenal cortex in frost-bitten rabbits with and without heparin treatment [Hoelscher], 378

**Adenoma**  
pulmonary adenomatosis: report of case demonstrating peculiar histological changes in certain bronchioles [Gepts], 473

**American Board of Pathology, 104**

**Aneurysms**  
lesions of vasa vasorum and dissecting aneurysms of aorta: analysis of incidence, etiological aspects, pathogenesis, and pathological changes [McCloskey & Chu], 132  
ruptured congenital of aortic sinuses of Valsalva: report of case with bacterial endocarditis due to *Hemophilus parainfluenzae* [Tenczar & others], 552

**Anoxia**  
deaths from rapid anoxia [Gordon & Turner], 160

**Antibodies**  
effect of cortisone on Arthus phenomenon as related to time of sensitization: comparison of histopathologic changes [Tillotson], 119

**Aorta**  
human aorta in diabetes mellitus [Faber & Lund], 239  
lesions of vasa vasorum and dissecting aneurysms of aorta: analysis of incidence, etiological aspects, pathogenesis, and pathological changes [McCloskey & Chu], 132

**Apoplexy:** See Brain, hemorrhage

**Apparatus**  
simple disposable apparatus for dehydration of frozen tissues [Jennings], 195

**Appointments**  
Bailey, Orville, 194  
Boyd, William, 488  
Stowell, Robert E., 104

**Arteries**  
effect of repeated streptococcal pulmonary infections on cardiovascular system in rats [Glaser & others], 233  
embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppen], 168  
hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tintorial characteristics [Muirhead & others], 266  
localization of thromboemboli in main arteries and deep veins of lower limb [Lindblom], 128  
single coronary artery: report of 2 cases [Stopley & Edwards], 470  
thromboembolic pulmonary arteritis and vascular sclerosis [Muirhead & Montgomery], 505

**Arterioles:** See under Arteries

**Arteritis:** See under Arteries

**Arthritis**  
granulomatous glomerulonephritis associated with polyarthritis: report of case [McManus & Hornsby], 84

**Arthus Phenomenon**  
effect of cortisone on Arthus phenomenon as related to time of sensitization: comparison of histopathologic changes [Tillotson], 119

**Aureomycin.**  
effect on transplanted tumors [Sokoloff & Eddy], 210

**Awards**  
Bertner Foundation Award to F. W. Stewart, 104

**Azobenzene**  
effect of copper on hepatic tumors produced by 3'-methyl-4-dimethylaminoazobenzene [Pedro & Kozekal], 435

**Bacteria:** See under names of specific organisms

**Bauer, F. C., Jr.**  
Lipemia of rabbits following unilateral occlusion of renal vessels, 115

**Benton, J. G.**  
Observations on cytoplasmic hepatic-cell pigment in man, 67

**Beveridge, J. M. R.**  
Hepatic necrosis induced by dietary means: effect of various modifications on liver lipid fractions and on development of necrosis, 423

**Studies on hepatic necrosis induced by dietary means: conditions affecting production and prevention of massive liver necrosis, 428**

**Bieri, J. G.**  
Effect of hypervitaminosis A and hypovitaminosis A on skeleton of duck, 299

**Blood**  
cells: dynamics of inflammation and of repair: chemotactic substances in normal tissues [Moon & Terashakovec], 441  
fats: cholesterol in plasma and tissues subsequent to its intravenous injection [Osborn & others], 546  
fats: lipemia of rabbits following unilateral occlusion of renal vessels [Johnson & others], 115

**Blood Pressure, High**  
hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tintorial characteristics [Muirhead & others], 266  
malignant hypertension following administration of cortisone in periarthritis nodosa, 145

**polyarteritis nodosa:** associated with malignant hypertension, disseminated platelet thrombosis, "wire loop" glomeruli, pulmonary silicotuberculosis and sarcoidosis-like lymphadenopathy [Symmers & Gillett], 489

**Blood Vessels**  
anomalous cardiac blood vessel communicating with right ventricle: observations in case of pulmonary atresia with intact ventricular septum [Williamson & others], 480  
embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppen], 168  
lesions of vasa vasorum and dissecting aneurysms of aorta: analysis of incidence, etiological aspects, pathogenesis, and pathological changes [McCloskey & Chu], 132  
thromboembolic pulmonary arteritis and vascular sclerosis [Muirhead & Montgomery], 505  
vascular lesions in alloxan diabetic rats [Chute & others], 105

**Bones**  
acute plasma leukemia without localized bone lesions: report of case with autopsy observations [Lawrence & Fortner], 384  
bone-marrow embolism [Fisher], 315

**effect of hypervitaminosis A and hypovitaminosis A on skeleton of duck [Eigdon & others], 299**

**tumors:** note on origin of multinucleated giant cells from vascular channels in tumors: tumors arising in thyroid gland, bone, and soft tissue [Rutherford], 98

**BOOK REVIEWS**  
American Illustrated Medical Dictionary: W. A. N. Dorland, 296  
Atlas of Histologic Diagnosis in Surgical Pathology: K. T. Neuburger, 198  
Biological Actions of Adenine Nucleotides, H. N. Green and H. B. Stoner, 298  
Clinical Pediatric Urology: M. Campbell, 400  
Clinical and Roentgenologic Evaluation of Pelvis in Obstetrics: H. C. Moloy, 402  
Cytology of Human Vagina: I. L. C. de Allende and O. Orrias, 198  
Dible and Davie's Pathology: Introduction to Medicine and Surgery: J. H. Dible, 574  
Electroencephalography in Clinical Practice: R. S. Schwab, 296

## BOOK REVIEWS—Continued

From a Doctor's Heart: E. F. Snyder, 400

Frühdiagnose des Uteruscarcinomas: unter Besonderer Berücksichtigung des Scheidenabstrichverfahrens nach Papanicolaou: H. Limburg, 296

Growth, Replacement and Types of Hair: J. B. Hamilton, A. E. Light, and others, 296

Handbook of Medical Management: M. Chatton, S. Margen, and H. D. Brauner, 296

Immunology: N. P. Sherwood, 401

Kidney—Medical and Surgical Diseases: A. C. Allen, 398

Klinische Physiologie und Pathologie: F. Hoff, 399

Lehrbuch der Röntgendiagnostik: H. R. Schinz, W. E. Baensch, E. Friedl, and E. Uehlinger, 297

Leprosy: E. Grunberg and others, 298

Mechanisms of Cell Division: M. J. Kopac, and others, 295

Medical and Pathophysiology: I. M. Scheinker, 295

Medicinal Chemistry: I. C. M. Suter, 297

Metabolisme du Fer: Physiologie, Pathologie, Traitement: G. Hemmeler, 298

Microkaryocytes: Fourth Corpuscles and Their Functions: K. G. Khorozian, 396

1950 Year Book of Pathology and Clinical Pathology: edited by H. T. Karsner and A. H. Sanford, 296

Papain: M. L. Tainter and others, 401

Primary Carcinoma of Liver: Study in Incidence, Clinical Manifestations, Pathology, and Aetiology: C. Berman, 401

Principles and Practice of Obstetrics: J. P. Greenhill, 399

Quantitation of Mixtures of Hemoglobin Derivatives by Photoelectric Spectrophotometry: F. T. Hunter, 400

Review of Physiological Chemistry: H. A. Harper, 400

Spezielle Pathologie der Krankheiten des zentralen und peripheren Nervensystems: G. Peters, 402

Surgical Forum: Proceedings of Forum Sessions: Thirty-Sixth Clinical Congress of American College of Surgeons, 398

Syllabus of Human Neoplasms: R. M. Mulligan, 297

Talassemia: G. Astaldi, P. Tolentino, and C. Sacchetti, 397

Textbook of Medicine: edited by R. L. Cecil and R. F. Loeb, 296

Text-Book of X-Ray Diagnosis: edited by S. C. Shanks and P. Kerley, 298

Transactions of American Gastro Association, Annual Session, March 9, 10, and 11, 1950, 297

Treatment of Nephrotic Syndrome: L. E. Farr, 399

Tuberkulose: Ihre Erkennung und Behandlung: edited by H. Deist and H. Krauss, 298

Tumors of Adrenal: H. T. Karsner, 397

Brain

cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions [Vogel], 355

infarction without thrombosis: analysis of 100 cases with autopsy [Hicks & Warren], 403

metastasis to pineal body [Ortega & others], 518

paraphysial cyst of third ventricle: report of case with autopsy observations [Schwartz & Hansen], 290

Breakstone, E.

Observations on cytoplasmic hepatic-cell pigment in man, 67

Bunting, H.

Histochemical analysis of pathological mineral deposits at various sites with discussion of methods used, 458

Buitt, E. M.

Streptococcus hepatitis, 288

Calcification

calcified lesions in C3H mice given purified low-protein diets: tissues involved: heart, skeletal muscles, arteries, and lungs [Highman & Daft], 221

Cancer: See also under names of organs and regions flavonoids in experimental cancers [Sokoloff & others], 215

Cannon, P. R.

Ludwig Hektoen, pathologist: special article, 390

Carbonaro, L.

Lipemia of rabbits following unilateral occlusion of renal vessels, 115

Cardiovascular System: See also Blood Vessels; Heart; etc.

Cardiovascular System—Continued

hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tinctorial characteristics [Muirhead & others], 266

thromboembolic pulmonary arteritis and vascular sclerosis [Muirhead & Montgomery], 505

Cells

epithelial: quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy [Foraker & Denham], 155

giant: note on origin of multinucleated giant cells from vascular channels in tumors; tumors arising in thyroid gland, bone, and soft tissue [Rathner], 98

hepatic: observations on cytoplasmic hepatic-cell pigment in man [Post & others], 67

Cerebral

cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions [Vogel], 355

lesions: coexistent gastroduodenal and cerebral lesions in infancy and childhood [Schlumberger], 43

Chalikoff, I. L.

Selective pancreatic acinar destruction by diethionine, 230

Chemotaxis

dynamics of inflammation and of repair: chemotactic substances in normal tissues [Moon & Tershakovec], 441

Cholesterol

in plasma and tissues subsequent to its intravenous injection [Osborn & others], 546

Chu, P. T.

Lesions of vasa vasorum and dissecting aneurysms of aorta: analysis of incidence, etiological aspects, pathogenesis, and pathological changes, 132

Chute, A. L.

Vascular lesions in alloxan diabetic rats, 105

Congress: See Societies

Cooray, G. H.

Adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy, 182

Copper

effect of various pathological conditions on copper content of human tissues [Pedrero & Koseika], 447

Cor Pulmonale: See Heart, hypertrophy

Cortisone

effect on Arthus phenomenon as related to time of sensitization: comparison of histopathologic changes [Tillotson], 119

experimental coronary sclerosis: effect of cortisone on end-stage coronary sclerosis in chickens [Paterson & Mitchell], 260

malignant hypertension following administration in periarteritis nodosa [Ehrenreich & Omsland], 145

Craigie, E.

Posterior axis thrombosis with spontaneous portacaval shunt and resultant cor pulmonale, 91

Cysts

paraphysial cyst of third ventricle: report of case with autopsy observations [Schwartz & Hansen], 286

thymic, of neck [Weller & others], 569

Cytology: See Cells

Cytoplasm: See Cells

Daft, F. S.

Calcified lesions in C3H mice given purified low-protein diets: tissues involved: heart, skeletal muscles, arteries, and lungs, 221

Diamond, G. J.

Effect of repeated streptococcal pulmonary infections on cardiovascular system in rats, 253

Daum, K.

Cholesterol in plasma and tissues subsequent to its intravenous injection, 546

Denham, S. W.

Quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy, 155

Diabetes

alloxan: vascular lesions in alloxan diabetic rats [Chute & others], 105

melittus: human aorta in [Faber & Lund], 239

**Diet and Dietetics**  
 calcified lesions in C3H mice given purified low-protein diets: tissues involved: heart, skeletal muscles, arteries, and lungs [Highman & Daft], 221  
 hepatic necrosis induced by dietary means: effect of various modifications on liver lipid fractions and on development of necrosis [Abell & Beveridge], 423  
 studies on hepatic necrosis induced by dietary means: conditions affecting production and prevention of massive liver necrosis [Abell & Beveridge], 428

**Diethylstilbestrol: See Estrogens**

**Duodenum**  
 coexistent gastroduodenal and cerebral lesions in infancy and childhood [Schlumberger], 43

**Eddy, W. H.**  
 Effect of aureomycin on transplanted tumors, 210  
 Flavonoids in experimental cancers, 215

**Edwards, J. E.**  
 Anomalous cardiac blood vessel communicating with right ventricle: observations in case of pulmonary atresia with intact ventricular septum, 480  
 Single coronary artery: report of 2 cases, 470

**Ehrenreich, T.**  
 Malignant hypertension following administration of cortisone in periarteritis nodosa, 145

**Embolism**  
 bone-marrow embolism [Fisher], 315  
 pulmonary: thromboembolic pulmonary arteritis and vascular sclerosis [Muirhead & Montgomery], 365

**Embryology**  
 embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppen], 168

**Emmart, E. W.**  
 Chondromucinase from bovine testis and chondromucin of umbilical cord, 363

**Endocarditis**  
 bacterial: report of case with, due to *Homophilus parainfluenzae*: ruptured congenital aneurysms of aortic sinuses of Valsalva [Tenczar & others], 552

**Enzymes**  
 cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions [Vogel], 355

**Erickson, E. E.**  
 Method for histopathologic study of atrioventricular node, bundle, and branches, 73

**Esophagus**  
 embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppen], 168

**Estrogens**  
 quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy [Foraker & Denham], 155

**Ethionine**  
 selective pancreatic acinar destruction by diethionine [Goldberg & Chaikoff], 230

**Extremities**  
 lower: localization of thrombosis in main arteries and deep veins of lower limbs [Lindbom], 128

**Faber, M.**  
 Human aorta: aorta in diabetes mellitus, 239

**Fat**  
 hepatic necrosis induced by dietary means: effect of various modifications on liver lipid fractions and on development of necrosis [Abell & Beveridge], 423

**Fernando, P. B.**  
 Adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy, 182

**Fisher, J. H.**  
 Bone-marrow embolism, 315

**Flavonoids**  
 in experimental cancers [Sokoloff & others], 215

**Fluss, Z.**  
 Embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies, 168

**Foraker, A. G.**  
 Quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy, 155

**Fortner, H. C.**  
 Acute plasma leukemia without localized bone lesions: report of case with autopsy observations, 384

**Frostbite**  
 morphological changes of adrenal cortex in frostbitten rabbits with and without heparin treatment [Hoelscher], 378

**Gastrointestinal Tract**  
 coexistent gastroduodenal and cerebral lesions in infancy and childhood [Schlumberger], 43

**Gepts, W.**  
 Pulmonary adenomatosis: report of case demonstrating peculiar histological changes in certain bronchioles, 473

**Gillett, R.**  
 Polyarteritis nodosa: associated with malignant hypertension, disseminated platelet thrombosis, "wire-loop" glomeruli, pulmonary silicotuberculosis, and sarcoidosis-like lymphadenopathy, 489

**Glaser, R. J.**  
 Effect of repeated streptococcal pulmonary infections on cardiovascular system in rats, 253  
 Pathogenesis of streptococcal pneumonia in rat, 244

**Glomerulonephritis: See Nephritis, glomerular**

**Glycogen**  
 quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy [Foraker & Denham], 155

**Gold, N. I.**  
 Studies on alkaline phosphatase associated with regenerating connective tissue fibers, 413

**Goldberg, R. C.**  
 Selective pancreatic acinar destruction by diethionine, 230

**Gordon, I.**  
 Deaths from rapid anoxia, 160

**Gould, B. S.**  
 Studies on alkaline phosphatase associated with regenerating connective tissue fibers, 413

**Granuloma**  
 granulomatous glomerulonephritis associated with polyarthritis [McManus & Hornsby], 84

**Grolman, A.**  
 Hypersensitive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its histological characteristics, 266

**Hansen, J. L.**  
 Paraphysial cyst of third ventricle: report of case with autopsy observations, 280

**Heart**  
 anatomy and histology: method for histopathologic study of atrioventricular node, bundle, and branches [Lev & others], 73  
 anomalous cardiac blood vessel communicating with right ventricle: observations in case of pulmonary atresia with intact ventricular septum [Williams & others], 480  
 experimental coronary sclerosis: effect of cortisone on end-stage coronary sclerosis in chickens [Paterson & Mitchell], 269  
 hypertrophy: portal axis thrombosis with spontaneous portacaval shunt and resultant cor pulmonale [Manta & Craigie], 91  
 malignant teratoma of [Solomon], 561  
 single coronary artery: report of 2 cases [Stapely & Edwards], 470

**Hektoen, Lundig, Pathologist: special article [Cannan], 390**

**Hemoglobin**  
 heidinger-thionine method for demonstration in formaldehyde-fixed, paraffin-embedded tissue [Putti], 293

**Hemophilus Parainfluenzae**  
 ruptured congenital aneurysms of aortic sinuses of Valsalva: report of case with bacterial endocarditis due to *Hemophilus parainfluenzae* [Tenczar & others], 552

**Hemorrhage**  
 cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions [Vogel], 355

**Heprin**  
 morphological changes of adrenal cortex in frostbitten rabbits with and without heparin treatment [Hoelscher], 378

**Hepatitis**  
 Streptococcus hepatitis [Kotin & Buit], 288

Hicks, S. P.  
Infarction of brain without thrombosis: analysis of 100 cases with autopsy, 403

Higbman, B.  
Calcified lesions in C3H mice given purified low-protein diets: tissues involved: heart, skeletal muscles, arteries, and lungs, 221

Hirsch, E. F.  
Lipemia of rabbits following unilateral occlusion of renal vessels, 115

Hoelscher, B.  
Morphological changes of adrenal cortex in frost-bitten rabbits with and without heparin treatment, 378

Hornsy, A. T.  
Granulomatous glomerulonephritis associated with polyarthritis: report of case, 84

Horwitz, F.  
Application of emission spectroscopy to medical problems: spectrographic techniques, 321  
Application of emission spectroscopy to medical problems: survey of typical applications, 332

Hyaluronidase chondromucinase from bovine testis and chondromucin of umbilical cord [Lillie & others], 363

Hypertension: See Blood Pressure, High

Immunization  
effect of cortisone on Arthus phenomenon as related to time of sensitization: comparison of histopathologic changes [Tillotson], 119

Infections  
effect of repeated streptococcal pulmonary infections on cardiovascular system in rats [Glaser & others], 233

Inflammation  
dynamics of inflammation and of repair: trigger mechanism of acute inflammation [Moon & Tershakovec], 369

International Congress of Neuropathology, 488

Jennings, R. B.  
Simple disposable apparatus for dehydration of frozen tissues, 195

Johnsmann, R. J.  
Ruptured congenital aneurysms of aortic sinuses of Valsalva: report of case with bacterial endocarditis due to Hemophilus parainfluenzae, 552

Johnson, G. C.  
Lipemia of rabbits following unilateral occlusion of renal vessels, 115

Jones, E. E.  
Vascular lesions in alloxan diabetic rats, 165

Jungeblut, C. W.  
Problems of classification of poliomyelitis virus, 18

Kaufman, J.  
Ruptured congenital aneurysms of aortic sinuses of Valsalva: report of case with bacterial endocarditis due to Hemophilus parainfluenzae, 552

Kaufman, N.  
Application of emission spectroscopy to medical problems: spectrographic techniques, 321  
Application of emission spectroscopy to medical problems: survey of typical applications, 332

Kent, G. B., Jr.  
Anomalous cardiac blood vessel communicating with right ventricle: observations in case of pulmonary atresia with intact ventricular septum, 480

Kidneys  
Lipemia of rabbits following unilateral occlusion of renal vessels [Johnson & others], 115  
necrosis: experimental medullary necrosis of kidney: morphologic and functional study [Mandel & Popper], 1

Kinney, T. D.  
Application of emission spectroscopy to medical problems: spectrographic techniques, 321  
Application of emission spectroscopy to medical problems: survey of typical applications, 332

Kotin, P.  
Streptococcus hepatitis, 288

Kozelka, F. D.  
Effect of copper on hepatic tumors produced by 3'-methyl-4-dimethylaminobenzene, 435  
Effect of various pathological conditions on copper content of human tissues, 447

Kriderbaugh, W.  
Cholesterol in plasma and tissues subsequent to its intravenous injection, 546

Laskey, A. M.  
Chondromucinase from bovine testis and chondromucin of umbilical cord, 363

Lawrence, S. H.  
Acute plasma leukemia without localized bone lesions: report of case with autopsy observations, 384

Leucocytes  
dynamics of inflammation and of repair: chemotactic substances in normal tissues [Moon & Tershakovec], 441

Leukemia  
acute plasma cell leukemia without localized bone lesions: report of case with autopsy observations [Lawrence & Fortner], 384

Lev, M.  
Method for histopathologic study of atrioventricular node, bundle, and branches, 73

Lillie, E. D.  
Chondromucinase from bovine testis and chondromucin of umbilical cord, 363

Lindblom, A.  
Localization of thrombosis in main arteries and deep veins of lower limb, 128

Lipemia: See Blood, fat

Lipids: See Blood, fat; Cholesterol; Fat

Livers  
anatomy and histology: observations on cytoplasmic hepatic-cell pigment in man [Post & others], 67  
hepatitis, Streptococcus [Kotin & Butt], 288  
necrosis: hepatic necrosis induced by dietary means: effect of various modifications on liver lipid fractions and on development of necrosis [Abell & Beveridge], 423  
necrosis: studies on hepatic necrosis induced by dietary means: conditions affecting production and prevention of massive liver necrosis [Abell & Beveridge], 428  
tumors: effect of copper on hepatic tumors produced by 3'-methyl-4-dimethylaminobenzene [Pedreiro & Kozelka], 455

Lund, F.  
Human aorta: aorta in diabetes mellitus, 239

Lungs  
pulmonary adenomatosis: report of case demonstrating peculiar histological changes in certain bronchioles [Gupta], 473

Lymph Nodes  
polyarteritis nodosa: associated with malignant hypertension, disseminated platelet thrombosis, "wire-loop" glomeruli, pulmonary silicoticulosis, and sarcoidosis-like lymphadenopathy [Symmers & Gillett], 489

Malamud, N.  
Metastasis to pineal body, 518

Mandel, E. E.  
Experimental medullary necrosis of kidney morphologic and functional study, 1

Manitz, F. A., Jr.  
Portal axis thrombosis with spontaneous portacaval shunt and resultant cor pulmonale, 91

McCloskey, J. F.  
Lesions of vasa vasorum and dissecting aneurysms of aorta: analysis of incidence, etiological aspects, pathogenesis, and pathological changes, 582

McManus, J. F. A.  
Granulomatous glomerulonephritis associated with polyarthritis: report of case, 84

3'-Methyl-4-Dimethylaminobenzene: See Azobenzene

Minerals  
histochemical analysis of pathological mineral deposits at various sites with discussion of methods used [Bunting], 458

Mitchell, C. A.  
Experimental coronary sclerosis: effect of cortisone on end-stage coronary sclerosis in chickens, 260

Montgomery, P. O'B.  
Thromboembolic pulmonary arteritis and vascular sclerosis: its experimental production in rabbits by means of intravenously injected human amniotic fluid and autogenous blood clots, 595

Moon, V. H.  
Dynamics of inflammation and of repair: chemotactic substances in normal tissues, 441  
Dynamics of inflammation and of repair: trigger mechanism of acute inflammation, 369

Morgan, T. J.  
Experimental food-aspiration pneumonia, 350

Muirhead, E. E.  
Hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tinctorial characteristics, 266

Muirhead, E. E.—Continued  
 Thromboembolic pulmonary arteritis and vascular sclerosis: its experimental production in rabbits by means of intravenously injected human amniotic fluid and autogenous blood clots, 305

Motion Pictures  
 revised catalog of medical motion pictures, 395

Neck  
 thymic cyst [Weller & others], 569

Necrosis: See Liver

Neoplasms: See Brain

Nephrectomy  
 hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tinctorial characteristics [Muirhead & others], 266

Nephritis  
 glomerular: granulomatous glomerulonephritis associated with polyarthritides: report of case [McManus & Hornsby], 94

Nephrosclerosis  
 malignant hypertension following administration of cortisone in periarteritis nodosa [Ehrenreich & Olmstead], 145

Neuroblastoma  
 adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy [Fernando & others], 182

Obituaries  
 Hektoen, Ludvig, 390

Sloan, Ruth A.

Soule, Malcolm H., 395

Weeter, Henry Montgomery, 104

O'Bryan, M. J.  
 Vascular lesions in alloxan diabetic rats, 105

Olmstead, E. V.  
 Malignant hypertension following administration of cortisone in periarteritis nodosa, 145

Orr, J. L.  
 Vascular lesions in alloxan diabetic rats, 105

Ortega, P.  
 Metastasis to pineal body, 518

Osborn, M.  
 Cholesterol in plasma and tissues subsequent to its intravenous injection, 546

Oxygen Deficiency: See Anoxia

Pancreas  
 cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions [Vogel], 355  
 selective pancreatic acinar destruction by diethionine [Goldberg & Chalkoff], 230

Paterson, J. C.  
 Experimental coronary sclerosis: effect of cortisone on end-stage coronary sclerosis in chickens, 266

Pearce, A. E.  
 Thymic cyst of neck, 569

Pedrero, E., Jr.  
 Effect of various pathological conditions on copper content of human tissues, 447  
 Effect of copper on hepatic tumors produced by 3'-methyl-4-dimethylaminoazobenzene, 435

Periarteritis nodosa  
 malignant hypertension following administration of cortisone in [Ehrenreich & Olmstead], 145  
 polyarteritis nodosa: associated with malignant hypertension, disseminated platelet thrombosis, "wire-loop" glomeruli, pulmonary silicotuberculosis, and sarcoidosis-like lymphadenopathy [Symmers & Gillett], 489

Pheochromocytoma  
 adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy [Fernando & others], 182

Phosphatase  
 studies on alkaline phosphatase associated with regenerating connective tissue fibers [Gould & Gold], 413

Pigments  
 observations on cytoplasmic hepatic-cell pigment in man [Post & others], 67

Pineal Body  
 metastasis to [Ortega & others], 518

Pneumoconiosis  
 polyarteritis nodosa: associated with malignant hypertension, disseminated platelet thrombosis, "wire-loop" glomeruli, pulmonary silicotuberculosis, and sarcoidosis-like lymphadenopathy, [Symmers & Gillett], 489

Pneumonia  
 food-aspiration, experimental [Moran], 359  
 pathogenesis of streptococcal pneumonia in rat [Glaser & Wood], 244

Pollard, M.  
 problems of classification of virus [Jungeblut], 18

Polyarteritis Nodosa: See Periarteritis nodosa

Polyarthritis: See Arthritis

Poppen, K. J.  
 Embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies, 168

Popper, H.  
 Experimental medullary necrosis of kidney: morphologic and functional study, 1

Portal Vein  
 abnormalities: portal axis thrombosis with spontaneous portacaval shunt and resultant cor pulmonale [Mantz & Craigie], 91

Post, J.  
 Observations on cytoplasmic hepatic-cell pigment in man, 67

Pregnancy  
 quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smears in pregnancy [Foraker & Denham], 135

Putt, F. A.  
 Benzidine-thionine method for demonstration of hemoglobin in formaldehyde-fixed, paraffin-embedded tissue, 293

Report, M.  
 Thymic cyst of neck, 569

Rather, L. J.  
 Note on origin of multinucleated giant cells from vascular channels in tumors: tumors arising in thyroid gland, bone, and soft tissue, 98

Redd, J. B.  
 Flavonoids in experimental cancers, 215

Respiratory Tract  
 embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppen], 168

Retirement  
 Parker, Frederic, Jr., 488

Ridder, R. H.  
 Effect of hypervitaminosis A and hypovitaminosis A on skeleton of duck, 299

Rinehart, J. F.  
 Improved method for histologic demonstration of acid mucopolysaccharides in tissues, 189

Rude, J. C.  
 Effect of hypervitaminosis A and hypovitaminosis A on skeleton of duck, 299

Saccharides  
 improved method for histologic demonstration of acid mucopolysaccharides in tissues [Rinehart & Abu-Haij], 189

Saccocciano, G.  
 Study of tissue implantations on embryonated egg membranes, 529

Schluemperger, H. G.  
 Coexistent gastroduodenal and cerebral lesions in infancy and childhood, 43

Schutte, J.  
 Pachymatous cyst of third ventricle: report of case with autopsy observations, 286

Sclerosis  
 coronary, experimental: effect of cortisone on end-stage coronary sclerosis in chickens [Paterson & Mitchell], 260  
 hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tinctorial characteristics [Muirhead & others], 266  
 vascular: thromboembolic pulmonary arteritis and [Muirhead & Montgomery], 505

Shimkin, M. B.  
 Metastasis to pineal body, 518

Silicosis: See Pneumoconiosis

Sinuses  
 aortic of Valsalva: ruptured congenital aneurysms of: report of case with bacterial endocarditis due to *Hemophilus parainfluenzae* [Tenczar & others], 552

Skeleton: See Bones

Smith, I. L.  
 Application of emission spectroscopy to medical problems: spectrographic techniques, 331  
 Application of emission spectroscopy to medical problems: survey of typical applications, 332

**Societies**

- International Congress of Neuropathology, 488
- International Society for Geographic Pathology, 488
- Rochester (N. Y.) Academy of Medicine, 104**
- Wisconsin Society of Pathologists, 488
- Sokoloff, B.**
- Effect of aureomycin on transplanted tumors, 210
- Flavonoids in experimental cancers, 215
- Solomon, R. D.**
- Malignant teratoma of heart: report of case with necrosis, 561
- Spectroscopy**
- application of emission spectroscopy to medical problems: survey of typical applications [Smith & others], 322
- application of emission spectroscopy to medical problems: techniques [Smith & others], 321
- Staln and Stalning**
- benzidine-thionine method for demonstration of hemoglobin in formaldehyde-fixed, paraffin-embedded tissue [Putt], 293
- improved method for histologic demonstration of acid mucopolysaccharides in tissues [Binehart & Abul-Haj], 189
- Standard Nomenclature of Diseases and Operations: fourth edition, 574**
- Stanley, L. A.**
- Single coronary artery: report of 2 cases, 470
- Stomach**
- coexistent gastroduodenal and cerebral lesions in infancy and childhood [Schlumberger], 43
- Symmers, W. St. C.**
- Polyarteritis nodosa: associated with malignant hypertension, disseminated platelet thrombosis, "wire-loop" glomeruli, pulmonary silicotuberculosis, and sarcoidosis-like lymphadenopathy, 489
- Tenezzer, F. J.**
- Ruptured congenital aneurysms of aortic sinuses of Valsalva: report of case with bacterial endocarditis due to *Haemophilus parainfluenzae*, 552
- Teratoma**
- malignant, of heart [Solomon], 561
- Tershakovec, G. A.**
- Dynamics of inflammation and of repair: chemotactic substances in normal tissues, 441
- Dynamics of inflammation and of repair: trigger mechanism of acute inflammation, 369
- Test**
- histochemical analysis of pathological mineral deposits at various sites with discussion of methods used [Bunting], 458
- Thanabalsundram, R. S.**
- Adrenal pheochromocytoma with neuroblastomatous elements: report of case with autopsy, 182
- Thrombosis**
- platelet, disseminated: polyarteritis nodosa: associated with malignant hypertension, "wire-loop" glomeruli, pulmonary silicotuberculosis, and sarcoidosis-like lymphadenopathy [Symmers & Gillett], 489
- localization in main arteries and deep veins of lower limb [Lindblom], 128
- portal: portal axis thrombosis with spontaneous perioracal shunt and resultant cor pulmonale [Mantz & Craig], 91
- Thyroid**
- tumors: note on origin of multinucleated giant cells from vascular channels in tumors: tumors arising in thyroid gland, bone, and soft tissue [Rather], 98
- Tillotson, E. W.**
- Effect of cortisone on Arthus phenomenon as related to time of sensitization: comparison of histopathologic changes, 119
- Tissue**
- connective: studies on alkaline phosphatase associated with regenerating connective tissue fibers [Gould & Gold], 413
- culture: study of implantations on embryonated egg membranes [Saccomanno & Waldapfel], 529
- dynamics of inflammation and of repair: chemotactic substances in normal tissues [Moon & Tershakovec], 441
- effect of various pathological conditions on copper content of human tissues [Pedrero & Kozelka], 447
- study of tumor tissue after transplantation: histologic changes observed in anterior-chamber transplants of heterologous tumor tissue [Towbin], 199
- Towbin, A.**
- Study of tumor tissue after transplantation: histologic changes observed in anterior-chamber transplants of heterologous tumor tissue, 199
- Trachea**
- embryogenesis of tracheoesophageal fistula and esophageal atresia: hypothesis based on associated vascular anomalies [Fluss & Poppes], 168
- Tumors**
- cells: note on origin of multinucleated giant cells from vascular channels in tumors: tumors arising in thyroid gland, bone, and soft tissue [Rather], 98
- effect of aureomycin on transplanted tumors [Sokoloff & Eddy], 210
- effect of copper on hepatic tumors produced by 3'-methyl-4-dimethylaminobenzene [Pedrero & Kozelka], 453
- study of tumor tissue after transplantation: histologic changes observed in anterior-chamber transplants of heterologous tumor tissue [Towbin], 199
- Turner, L. B.**
- Hypertensive cardiovascular disease: nature and pathogenesis of arteriolar sclerosis induced by bilateral nephrectomy as revealed by study of its tectorial characteristics, 266
- Turner, R.**
- Deaths from rapid anoxia, 168
- Universities**
- Harvard Medical School: third annual lecture honoring Dr. S. Burt Wolbach, 104
- Indiana University: appointment of Dr. Orville Bailey, 104
- University of Kansas: appointment of Dr. R. E. Stowell, 104
- University of Texas: annual symposium on fundamental cancer research, 104
- Urinary Tract**
- experimental medullary necrosis of kidney: morphologic and functional study [Mandel & Popper], 1
- Urine**
- quantitative exfoliative cytology: effect of diethylstilbestrol on glycogen content of epithelial cells in urinary sediment and cervical smear in pregnancy [Foraker & Denham], 155
- Veins**
- localization of thrombosis in main arteries and deep veins of lower limb [Lindblom], 128
- Virus**
- problems of classification of poliomyelitis virus [Jungeblut], 18
- Vitamins**
- A: effect of hypervitaminosis A and hypovitaminosis A on skeleton of duck [Rigdon & others], 299
- Vogel, F. S.**
- Cerebral demyelination and focal visceral lesions in case of acute hemorrhagic pancreatitis with consideration of possible role of circulating enzymes in causation of lesions, 355
- Waldapfel, R.**
- Study of tissue implantations on embryonated egg membranes, 529
- Warren, S.**
- Infection of brain without thrombosis: analysis of 100 cases with autopsy, 403
- Weller, R. W.**
- Thymic cyst of neck, 569
- Widran, J.**
- Method for histopathologic study of atrioventricular node, bundle, and branches, 73
- Williams, R. R.**
- Anomalous cardiac blood vessel communicating with right ventricle: observations in case of pulmonary atresia with intact ventricular septum, 244
- Wood, W. B., Jr.**
- Effect of repeated streptococcal pulmonary infections on cardiovascular system in rats, 253
- Pathogenesis of streptococcal pneumonia in rat, 244
- Womack, N.**
- Cholesterol in plasma and tissues subsequent to its intravenous injection, 546
- Yeager, E.**
- Application of emission spectroscopy to medical problems: spectrographic techniques, 321
- Survey of typical applications, 332